

Monday, May 23		
07:40	Registration	
08:30	Opening	
Chair: W. Kok		
08:50	PL1 - Françoise Winnik	Characterization of responsive polymersomes and nanogels by asymmetrical flow field-flow fractionation
09:30	K1 - Lars Nilsson	Asymmetric flow field-flow fractionation: A powerful tool in food technology
10:00	O1 - Ryan R. Manning	Use of AF4 in peptide formulation and stabilization
10:20	O2 - Claudia Zielke	Separation and analysis of polysaccharide mixtures utilizing asymmetric flow field-flow fractionation coupled to multiangle light scattering (MALS)
10:40	<i>Break and Poster Discussion</i>	
Chair: M. H. Moon		
11:10	K2 - Kim Williams	Thermal diffusion, Soret coefficients, and thermal FFF of polymers and nanoparticles
11:40	O3 - Guillaume Greyling	Multidetector thermal field-flow fractionation as a unique tool for the characterisation of block copolymer micelles
12:00	O4 - James D. Oliver	FFF of branched polymers: Pushing FFF further with a second dimension of capillary electrophoresis
12:20	O5 - Stepan Podzimek	Characterization of the molecular and chemical structure of acrylic emulsion polymers by asymmetric flow field-flow fractionation coupled with a multi-angle light scattering detector
12:40	Poster Presentation nr. 1 - 10	
13:10	<i>Lunch and Poster Discussion</i>	
Chair: H. Pasch		
14:10	K3 - Michael Maskos	Characterization of nanoparticles: Contributions of different field-flow fractionation methods
14:40	O6 - Manuel Correia	Simultaneous on-line detection of SiO ₂ , TiO ₂ and Al ₂ O ₃ particles in toothpaste by asymmetric flow field-flow fractionation hyphenated to triple-quadrupole inductively coupled plasma mass spectrometry
15:00	O7 - David Müller	Inverse supercritical fluid extraction as efficient tool for FFF sample pretreatment and its application to the analysis of sunscreens
15:20	O8 - Aljosha-Rakim Jochem	Ligand dependent particle losses of gold nanoparticles during AF4: Electrostatic versus polymeric stabilization
15:40	O9 - William C. Smith	Composition and size-based separation of metal hybrid nanoparticles by thermal field-flow fractionation
16:00	<i>Break and Poster Discussion</i>	
Chair: M. Maskos		
16:30	O11 - Jone Omar	Characterisation of polydisperse TiO ₂ : A step towards the implementation of the EC definition on nanomaterial
16:50	O12 - Catia Contado	Does a centrifugal field-flow fractionation system equipped with an UV-Vis absorption detector allow characterizing silver nanoparticle suspensions for sizes and concentration?
17:10	O13 - Carina A. Sötebier	Characterization of silver nanoparticles: Limitation and advantages of field-flow fractionation
17:30 - 17:50	O14 - Haruhisa Kato	Characterization of size and size distribution of nanomaterials: A comparison of scanning electron microscopy, dynamic light scattering, and flow field-flow fractionation methods

Tuesday, May 24		
08:00	Registration	
	Chair: K. Williams	
08:30	PL2 - Ulrich Schubert	The need of novel characterization methods in the advanced materials science
09:10	K4 - Martin Brandl	Flow field-flow fractionation: A tool for liposome size-analysis and drug-release/-transfer studies
09:40	O15 - Johannes Fingernagel	Biohybrid structures of proteins and dendritic glycopolymers characterized by AF4
10:00	O16 - Sandrine Huclier-Markai	Characterization of gadolinium nanohydrogels for MRI by field-flow fractionation techniques
10:20	Poster Presentation nr. 11 - 20	
10:50	<i>Break and Poster Discussion</i>	
	Chair: H. Coelfen	
11:20	Product Seminar Postnova	
11:50	O17 - Florian Meier	Poly(lactic-co-glycolic acid) nanoparticles in cell medium used as bio-compatible substrates in pharmaceutical applications: Comprehensive characterization with centrifugal field-flow fractionation coupled with online dynamic light scattering
12:10	O18 - Ugo Till	Poly-ion complexes analysis with Frit Inlet flow field-flow fractionation systems
12:30	O19 - Simona Sitar	Size characterization and quantification of exosomes by AF4
12:50	Poster Presentation nr. 21 - 30	
13:20	<i>Lunch and Poster Discussion</i>	
	Chair: F. Winnik	
14:30	K5 - Myeong Hee Moon	Flow field-flow fractionation with mass spectrometry for subcellular proteins and metalloproteins
15:00	O20 - Lee Moore	Continuous magnetic depletion of red blood cells from whole blood by magnetic SPLITT
15:20	O21 - Carmen Bria	Impact of asymmetrical flow field-flow fractionation on protein aggregate stability
15:40	O22 - Bruce Gale	Separation of exosomes with electrical field-flow fractionation
16:00 - 16:30	K6 - Serge Battu	Field-flow fractionation for stem cells sorting: From normal, embryonic and cancer stem cells to a new development in the field of human induced pluripotent stem cells
18:00 - 00:00	Tour of the Transparent Factory/Gläserne Manufaktur of VW and subsequent dinner in the Restaurant Lesage	

Wednesday, May 25		
08:00	Registration	
	Chair: M. Martin	
08:30	Tribute to Francesco Dondi	
08:40	PL3 - Helmut Coelfen	Analytical ultracentrifugation: Multiwavelength UV-Vis analysis in high resolution analysis of functional nanoparticles and polymers - possibilities and limits and a comparison to FI-FFF
09:20	K7 - Oleg Iliev	Numerical simulation as a powerful tool to understand and improve flow-FFF separation
09:50	O23 - Petr S. Fedotov	Sedimentation field-flow fractionation of nano- and microparticles in rotating coiled columns: Theory and applications
10:10	O24 - Maria Marioli	Continuous AF4 for the fractionation and purification of biomolecules and nanoparticles with the use of microstructured membranes
10:30	Poster Presentation nr. 31 - 40	
11:00	<i>Break and Poster Discussion</i>	
	Chair: V. Hackley	
11:30	Product Seminar Wyatt	
12:00	O25 - Norbert Löwa	A novel magnetic FFF detector for the quantification and characterization of magnetic nanoparticles
12:20	O26 - Timo F. Beskers	Online coupling of FFF and FTIR spectroscopy
12:40	O27 - Christoph Johann	Combination of electrical and flow field-flow fractionation to measure electrophoretic mobility of nanoparticles and proteins
13:00	Poster Presentation nr. 41 - 50	
13:30	<i>Lunch and Poster Discussion</i>	
	Chair: S. Boye	
14:40	K8 - Julien Gigault	Asymmetric-flow field-flow fractionation: A powerful technique for characterizing nanomaterials (with many cautions)
15:10	O28 - Sachin Vilas Nehete	Uranium speciation in soft water using asymmetrical flow field-flow fractionation coupled with UV and inductively coupled plasma mass spectrometry (AsFIFFF-UV-ICP-MS)
15:30	O29 - Florian Dutschke	Development of an analytical approach using centrifugal field-flow-fractionation hyphenated to ICP-MS/MS for the detection and
15:50	O30 - Björn Meermann	Tracing and quantification of isotopically modified iron nanoparticles in a sediment slurry matrix via AF4/ICP-SFMS
16:10	O31 - Vaughn Mangal	Utilizing asymmetrical flow field-flow fractionation and high resolution mass spectrometry to assess the role of dissolved organic matter size and composition on mercury bioavailability
16:30	<i>Break and Poster Discussion</i>	
	Chair: L. Nilsson	
17:00	K9 - Antje Potthast	AsFIFFF for characterisation of polymers from renewable resources - Challenges and (some) solutions
17:30	O32 - Tomasz Kowalkowski	Application of self-adjustable split-flow lateral-transport thin channel for separation of environmental microparticles
17:50	O33 - Zhiqiang Tan	Study on environmental effects of nanomaterials based on hollow fiber flow field-flow fractionation
18:10 - 18:30	O34 - Zhiyuan Gao	Molecular weight distribution of marine dissolved organic matter in highly stratified Arctic Ocean

Thursday, May 26		
08:00	Registration	
	Chair: E. Mes	
08:30	K10 - Wei Gao	Characterization of colloidal particles in water using asymmetrical flow field-flow fractionation with advanced detection: Challenges and progresses
09:00	O35 Mikhail S. Ermolin	Preparative separation of particulate functional materials using field-flow fractionation in rotating coiled columns
09:20	O36 - Irina Sulaeva	Applicability of AsFIFFF for industrial lignosulfonate analysis
09:40	<i>Break</i>	
	Chair: B. Gale	
10:10	K11 - Vincent A. Hackley	Electrospray-differential mobility analysis: An introductory overview and applications in nanomedicine
10:40	O37 - Xiaotong Fu	Microfluidic free flow electrophoresis using tunable conductive PDMS polymer membranes
11:00	O38 - Robert Stange	Biomagnetic separation with variable electromagnetic induced force fields
11:20	O39 - Torsten Kreer	Translocation of macromolecules through polymer-brush covered microchannels
	Chair: A. Lederer	
11:40	PL4 - Stefan Diez	Separation and detection of analytes by biomolecular transport systems
12:20	Discussion session and presentation of the best posters	
12:50	Closing session	
13:20 - 14:20	Lunch and Farewell	